

Optical Fiber Fast Ethernet Adapter

FEATURES

- + Up to 200Mbps Fast Ethernet Fiber Connection
- + 32-bit PCI Bus Master Operation
- + Full-Duplex Operation
- + Wake-on-LAN (WOL) Power Management Support
- + IEEE 802.3x Full-Duplex Flow Control
- + IEEE 802.1Q VLAN Support
- + IEEE 802.1p Priority Tagging
- + Supports Windows 2003, 2000, XP, Vista x86/64, NetWare, Linux, Mac OS
- + Optional Boot ROM for Remote Program Load From Servers

The DFE-551FX Optical Fiber Fast Ethernet Adapter connects your desktop PC to a reliable fiber network. The card plugs into a PCI expansion slot inside your PC, transmits data at 200Mbps full duplex. Supporting advanced functions including traffic priority queues and VLAN, this adapter provides a secure environment to let you run bandwidth-demanding applications, such as IP telephony and video conferencing.

Reliable Fiber Connection

The DFE-551FX card allows you to establish secure fiber link for your PC. It can be used to set up a power workstation or a server with a direct fiber connection to a Fast Ethernet switch. Capable of running at 200Mbps full-duplex, this card serves well in a high electro-magnetic interference environment, providing a cable distance of up to 2 km to the switch.

Wake-On-LAN Power Management

The card supports Advanced Configuration Power Interface (ACPI) Wake-On-LAN (WOL), allows your computer to be powered ON/OFF from a remote place. Providing a great utility for power management of the PC, this function allows the administrator to send a wake-up signal to the computer to initiate action at irregular times and from distant locations.

High Performance

With 32-bit bus master operation, the card guarantees the highest performance. Bus master transfers data directly between the card and the host at multi-megabits per second, bypass the host CPU to alleviate its workload.

Flow Control to Minimize Packet Loss

The card's embedded flow control provides a means to protect against possible data loss during transmission on the network. When connected to a Fast Ethernet switch that supports flow control, the card receives signals from the switch regarding buffer overrun during peak usage periods. The card then delays transmission until the switch is ready again to accept new data.

VLAN to Improve Performance and Security

The card supports IEEE 802.1Q multiple Virtual LAN, allowing you to segment the network to smaller domains to improve performance and security. Dissemination of broadcast and unnecessary computer-to-computer packets can be restricted to reduce extraneous traffic. The card provides a VLAN table for the following functions: filtering packets by recognizing VLAN Tags, stripping VLAN Tags on receive, and inserting VLAN Tags on transmit.

IEEE 802.1p Priority Queues Support

With packet prioritization capability, the card allows traffic to be queued as critical and non-critical, permitting your computer to run voice over IP, video-conference and multimedia applications where packets are delivered at best-effort speeds.

RPL and PXE Remote Boot Optionst

2 remote boot options are available for selection. Administrators can choose to set up a security scheme for diskless workstations to boot from servers using the traditional Remote Program Load (RPL) or Intel's Pre-boot Execution Environment (PXE). Stations with boot ROMs installed on the on-board socket can boot O.S. from NetWare, NT and other servers to run applications designated by the administrator.





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Technical Specifications

Standards	<ul style="list-style-type: none"> + IEEE 802.3u 100BASE-FX Fast Ethernet + IEEE 802.3x Flow Control + IEEE 802.1p priority tagging, 8 queues 	<ul style="list-style-type: none"> + PCI local bus 2.2 specifications + IEEE 802.1Q VLAN tagging, 32 groups + Advanced Configuration and Power Interface (ACPI) v.1.0
Network Data Transfer Rate	+ 200Mbps (full-duplex)	
Network Cable	62.5/125 or 50/125 micron multimode fiber-optics (up to 2km at full-duplex)	
Fiber Connector	SC	
Diagnostic LEDs	<ul style="list-style-type: none"> + Link + Full duplex 	+ Activity (Tx/Rx)
Cache Buffer	+ 2KBytes receive FIFO	+ 2KBytes transmit FIFO
Flow Control	IEEE 802.3x flow control in full-duplex operation	
IRQ	Allocated by system	
I/O Address	Allocated by system	
O.S. Support	<ul style="list-style-type: none"> + Microsoft Windows 95/950SR2 + Microsoft Windows 2000/XP/server 2003/Vista x64/x86 + Novell NetWare Server 5.x/6.x + Linux Kernel 2.4.x to 2.6.x + Mac OS 10.3.x 	<ul style="list-style-type: none"> + Microsoft Windows 98/98SE/ME + Microsoft NT 3.51/4.0 + Packet Driver + NDIS2 for DOS
Boot ROM Address	+ Searched by system BIOS	
Boot ROM Flash Memory	<ul style="list-style-type: none"> + RPL boot ROM: 64KB(DFE-551R) + PXE boot ROM: 64KB(DFE-551P) 	
Boot Servers Supported	<ul style="list-style-type: none"> + Novell RPL Boot ROM code + Microsoft Windows NT 3.51, 4.x RPL server 	<ul style="list-style-type: none"> + NetWare 3.x, 4.x RPL server + Intel PXE 2.1
Power Consumption	1.14 watts (maximum)	
Dimensions	120 x 74 x 11 mm	
Operating Temperature	0° - 40° C (32° - 104° F)	
Storage Temperature	-25° - 55° C (-13° - 131° F)	
Humidity	5% - 90% non-condensing	
Emission	<ul style="list-style-type: none"> + FCC Class B + CE Class B + C-Tick + BSMI Class B 	